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AJNR

Reply:

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AJNR Am J Neuroradiol 2010, 31 (8) E73

doi: <https://doi.org/10.3174/ajnr.A2187>

<http://www.ajnr.org/content/31/8/E73>

This information is current as
of April 18, 2024.

Reply:

I thank Drs Savoiaro and Grisoli for adding to my Review Article on neuroimaging in superficial siderosis by providing 3 MR imaging illustrations of olfactory nerve involvement in this condition. I agree that anosmia and impaired peripheral vision may be under-reported symptoms.

“CSF hypovolemia” would mean decreased volume of CSF, and this term is preferred to “craniospinal hypotension” because a reduced CSF pressure may not describe the pathophysiology of the spectrum of abnormalities noted with dural defects.^{1,2}

Hereditary hemochromatosis is unlikely to cause neurologic manifestations.³ To my knowledge, there is limited information to confirm the suggestion that the hyperattenuation seen on head CT in some patients with superficial siderosis is due to iron and not calcium. High-definition x-ray fluorescence mapping and spectroscopy of siderotic spinal cord tissue has not shown the presence of calcium.⁴ In many patients with superficial siderosis, no abnormality is noted on CT. Furthermore, many of the conditions associated with primary brain iron accumulation (neurodegeneration with brain iron accu-

mulation) do not have abnormalities on CT, despite striking changes on brain MR imaging, particularly on gradient-echo sequences.⁵

References

1. Mokri B. **Spontaneous cerebrospinal fluid leaks: from intracranial hypotension to cerebrospinal fluid hypovolemia— evolution of a concept.** *Mayo Clin Proc* 1999;74:1113–23
2. Miyazawa K, Shiga Y, Hasegawa T, et al. **CSF hypovolemia vs intracranial hypotension in “spontaneous intracranial hypotension syndrome.”** *Neurology* 2003;60:941–47
3. Russo N, Edwards M, Andrews T, et al. **Hereditary haemochromatosis is unlikely to cause movement disorders: a critical review.** *J Neurol* 2004;251:849–52
4. Koeppen AH, Michael SC, Li D, et al. **The pathology of superficial siderosis of the central nervous system.** *Acta Neuropathol* 2008;116:371–82. Epub 2008 Aug 12
5. McNeill A, Birchall D, Hayflick SJ, et al. **T2* and FSE MRI distinguishes four subtypes of neurodegeneration with brain iron accumulation.** *Neurology* 2008;70:1614–19

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DOI 10.3174/ajnr.A2187